

# REPORT ON BOILERS.

No. 34012

THU. MAY. 21. 1914

Received at London Office

GLASGOW

18.5.1914 Port of

When handed in at Local Office

Date, First Survey 5.8.13

Last Survey 15.1.14

1914

(Number of Visits 17)

Tons

Gross 621

Net 265

When built 1914

Built at Paisley

By whom built Fullerton, C.

When made 1914

By whom made A Fisher Ltd (209)

When made 1914

By whom made A Frazer & Co Ltd (530)

When made 1914

Registered Horse Power

Owners W. Pottelwhite & Son

Port belonging to Liverpool

## WATER TUBULAR BOILERS—MAIN, AUXILIARY OR PORTABLE.—Manufacturers of Steel

James Deuloff Beardmore

Total Heating Surface of Boilers 1848 sq ft

Is forced draft fitted No

No. and Description of

one single ended

Working Pressure 180

Tested by hydraulic pressure to 360

Date of test 15.1.14

Certificate 12495 Can each boiler be worked separately ✓

Area of fire grate in each boiler 53-6 sq ft

No. and Description of

valves to each boiler Double Spring

Area of each valve 5.929

Pressure to which they are adjusted 185

they fitted with easing gear Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Least distance between boilers or uptakes and bunkers or woodwork 36"

Mean dia. of boilers 14 3/4"

Length 10'-6"

Material of shell plates S

Thickness 15/32"

Range of tensile strength 28/32

Are the shell plates welded or flanged ✓

Direction of riveting: cir. seams DR

long. seams TRIDBS

Diameter of rivet holes in long. seams 1 1/4"

Pitch of rivets 8 1/4"

Width of butt straps 1-6"

Per centages of strength of longitudinal joint rivets 95-6/100

Working pressure of shell by

Size of manhole in shell 16" x 12"

Size of compensating ring McNeil

No. and Description of Furnaces in each

3 flue

Material S

Outside diameter 3' 4 3/4"

Length of plain part top 6-11 1/2"

Thickness of plates crown 5 1/16"

Description of longitudinal joint welded

No. of strengthening rings ✓

Working pressure of furnace by the rules 191

Material S

Thickness: Sides 1 1/16"

Back 5/8"

Top 1 1/16"

Bottom 3 1/32"

Pitch of stays to ditto: Sides 9 x 9 1/2" Back 8 1/4 x 9"

If stays are fitted with nuts or riveted heads Nuts

Working pressure by rules 182

Material of stays S

Diameter at

Area supported by each stay 4 1/4 - 2 1/2 sq ft

Working pressure by rules 210

End plates in steam space: Material S

Thickness 1 1/4"

How are stays secured DN ✓

Working pressure by rules 185

Material of stays S

Diameter at smallest part 7/50"

Area supported by each stay 400 sq ft

Working pressure by rules 193

Material of Front plates at bottom S

Thickness 7/8"

Material of tube plates S

Thickness: Front 7/8"

Back 7/8"

Mean pitch of stays 11 7/8"

Pitch across wide

Working pressures by rules 190

Girders to Chamber tops: Material S

Depth and thickness of

Length as per rule 2' 5 1/2"

Distance apart 9

Number and pitch of Stays in each 2al-8"

Superheater or Steam chest; how connected to boiler ✓

Can the superheater be shut off and the boiler worked

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

End plates: Thickness

How stayed

Are they fitted with easing gear

Area of safety valves to superheater

Working pressure of end plates

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been built under Special Survey in accordance with the approved plan & the workmanship & material are of good quality. This Report accompanies that of the Machinery

Survey Fee charged in Monthly Report: When applied for, 191; When received, 191

Committee's Minute GLASGOW 20 MAY. 1914

Assigned See accompanying machinery report.

W. Gordon Muirhead Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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